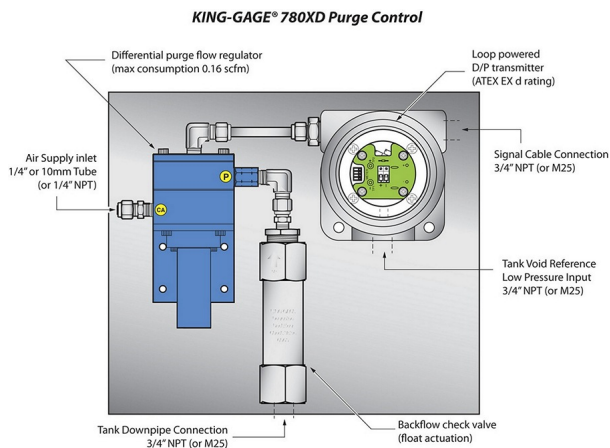


**KING-GAGE® D/P Purge Controls** provide continuous liquid level measurement using a simple and proven sensing technology. A regulated low volume air flow from the unit purges a length of pipe extending downward to the tank bottom. Changes in liquid depth increase or decrease the resulting internal air pressure while a differential pressure transmitter generates a 4-20 mA output directly proportional to the level in the tank.



The new **KING-GAGE 780XD Purge Control** is an extremely rugged unit designed specifically for hazardous areas requiring flameproof or ATEX (Ex d) rating. A proprietary wet check assembly ensures positive seal of fluids to ensure containment integrity. Loop powered transmitter provides 4-20mA<sub>dc</sub> output while components are isolated from the process media by a continuous air purge. Total consumption rate is less than 0.083 scfm for energy saving operation with external air/gas supply. The only internal element is a simple length of pipe extending into the tank.

Rugged design requires no setup or air flow adjustment due to its differential pressure regulation that avoids dynamic pressure drops common to other bubblers. This ensures highly accurate level measurement and repeatability within  $\pm 0.2\%$  while preventing turbulence or foaming of tank liquid. Applications include water/wastewater, sulfur pits, most free flowing liquids (including slurries) and temperatures in excess of 160 °C (320 °F) as the transmitter is

effectively isolated from the process by the air purge.

### **Application Profiles:**

Plastics & Resins • Paints & Coatings • Petroleum & Solvents • Fertilizers/Agrichemical

For additional KING-GAGE solutions, [click here](#) to see our list of applications



Click to download a pdf of the Purge Control Data Sheet.